SOCIO-ECONOMIC PLANNING SCIENCES

The International Journal of
PUBLIC SECTOR DECISION-MAKING

EDITOR-IN-CHIEF
BARNETT R. PARKER

List of Contents and Author Index
Volume 33, 1999

PERGAMON

Socio-Economic Planning Sciences

The International Journal of Public Sector Decision-Making

Editor-in-Chief BARNETT R. PARKER, Parker Associates, 113 Derby Lane, Chapel Hill, NC 27514-1412, U.S.A.

Founding Editor SUMNER N. LEVINE

Editorial Board

ANN VAN ACKERE,
Department of Decision Sciences,
London Business School,
Sussex Place,
London NW1 4SA, England

FRANCO ARCHIBUGI,
Scuola Superiore Della Pubblica Amministrazione,
Via Federico Cassitto 110,
00134 Roma, Italy

DUNCAN BOLDY,
Centre for Advanced Studies,
Division of Health Sciences,
Curtin University of Technology,
G.P.O. Box U 1987,
Perth 6001, Western Australia

WILLIAM W. COOPER,
College and Graduate School of Business,
University of Texas at Austin,
Austin, TX 78712-1175

HECTOR CORREA,
Graduate School of Public and International Affairs,
University of Pittsburgh,
Pittsburgh, PA 15260

DONALD ERLENKOTTER,
Graduate School of Management,
University of California,
Los Angeles, CA 90024

GERALD GARVEY,
Woodrow Wilson School,
Princeton University,
Princeton, NJ 08540

MICHAEL R. GREENBERG,
Livingston College,
Rutgers University,
New Brunswick,
NJ 08903

ERIC HANUSHEK,
University of Rochester,
W. Allen Wallis Inst. of Political Economy,
Harkness Hall, Rm 108,
Rochester, NY 14627-0158,
U.S.A.

LESTER A. HOEL,
Department of Civil Engineering,
University of Virginia,
Charlottesville,
VA 22901

ANDREW ISSERMAN,
Regional Research Institute,
West Virginia University,
Morgantown,
WV 26506

LEE KOPPELMAN,
2 Dune Court,
Setauket,
NY 11733

KENNETH LEE,
Centre for Health Planning and Management,
University of Keele,
Keele, Staffs. ST5 5BG,
England

ARNOLD REISMAN,
Reisman & Associates
18428 Parklands Blvd.
Shaker Heights,
OH 44122

CHARLES REVELLE,
Department of Geography and Environmental Engineering,
Johns Hopkins University,
313 Armes Hall,
3400 N. Charles Street,
Baltimore, MD 21218-2686

THOMAS L. SAATY,
Graduate School of Business,
University of Pittsburgh, Pittsburgh,
PA 15260

KAORU TONE,
National Graduate Institute for Policy Studies
2-2 Wakamatsu-cho
Shinjuka-ku
Tokyo 162-8677 Japan

Administrative Editor
EDYTHE A. PARKER,
113 Derby Lane, Chapel Hill,
NC 27514

© 1999 Elsevier Science Ltd. All rights reserved

Advertising information. Advertising orders and enquiries can be sent to: **USA, Canada and South America**: Mr Tino de Carlo, The Advertising Department, Elsevier Science Inc., 655 Avenue of the Americas, New York, NY 10010-5107, USA; phone: (+1) (212) 633 3815; fax: (+1) (212) 633 3820; e-mail: t.decarlo@elsevier.com. **Japan**: The Advertising Department, Elsevier Science K.K., 9-15 Higashi-Azabu 1-chome, Minato-ku, Tokyo 106-0044, Japan; phone: (+81) (3) 5561 5033; fax: (+81) (3) 5561 5047. **Europe and ROW**: Rachel Gresle-Farthing, The Advertising Department, Elsevier Science Ltd, The Boulevard, Langford Lane, Kidlington, Oxford OX5 1GB, UK; phone: (+44) (1865) 843565; fax: (+44) (1865) 843976; e-mail: r.gresle-farthing@elsevier.co.uk

Frequency: Published Quarterly in March, June, September and December.

Publication information: Socio-Economic Planning Sciences (ISSN 0038-0121). For 1999, volume 33 is scheduled for publication. Subscription prices are available upon request from the Publisher or from the Regional Sales Office nearest you or from this journal's website (http://www.elsevier.nl/locate/orms). Further information is available on this journal and other Elsevier Science products through Elsevier's website: (http://www.elsevier.nl). Subscriptions are accepted on a prepaid basis only and are entered on a calendar year basis. Issues are sent by standard mail (surface within Europe, air delivery outside Europe). Priority rates are available upon request. Claims for missing issues should be made within six months of the date of dispatch.

Orders, claims, and product enquiries: please contact the Customer Support Department at the Regional Sales Office nearest you:

New York: Elsevier Science, PO Box 945, New York, NY 10159-0945, USA; phone: (+1) (212) 633 3730 [toll free number for North American customers: 1-888-4ES-INFO (437-4636)]; fax: (+1) (212) 633 3680; e-mail: usinfo-f@elsevier.com

Amsterdam: Elsevier Science, PO Box 211, 1000 AE Amsterdam, The Netherlands; phone: (+31) 20 4853757; fax: (+31) 20 4853432; e-mail: nlinfo-f@elsevier.nl

Tokyo: Elsevier Science, 9-15 Higashi-Azabu 1-chome, Minato-ku, Tokyo 106-0044, Japan; phone: (+81) (3) 5561 5033; fax: (+81) (3) 5561 5047; e-mail: info@elsevier.co.jp

Singapore: Elsevier Science, No. 1 Temasek Avenue, #17-01 Millenia Tower, Singapore 039192; phone: (+65) 434 3727; fax: (+65) 337 2230; e-mail: asiainfo@elsevier.com.sg

Rio de Janeiro: Elsevier Science, Rua Sete de Setembro 111/16 Andar, 20050-002 Centro, Rio de Janeiro - RJ, Brazil; phone: (+55) (21) 509 5340; fax: (+55) (21) 507 1991; e-mail: elsevier@campus.com.br [Note (Latin America): for orders, claims and help desk information, please contact the Regional Sales Office in New York as listed above]

List of Contents

NUMBER 1

Joonas Hokkanen, Risto Lahdelma and **Pekka Salminen**	1	A multiple criteria decision model for analyzing and choosing among different development patterns for the Helsinki cargo harbor
Sophie D. Lapierre, David Goldsman, Roger Cochran and **Janice DuBow**	25	Bed allocation techniques based on census data
Jianguo Xiao, Andy H. Lee and **Siva Ram Vemuri**	39	Mixture distribution analysis of length of hospital stay for efficient funding
Deborah J. Shields, Boleslaw Tolwinski and **Brian M. Kent**	61	Models for conflict resolution in ecosystem management
About the Authors (Vol. 32, No. 4 and this issue)	85	

NUMBER 2

Miquel Carreras and **Daniel Serra**	91	On optimal location with threshold requirements
Robert L. Armacost and **Julia Pet-Edwards**	105	Integrative risk and uncertainty analysis for complex public sector operational systems
Fariborz Y. Partovi and **John M. Epperly**	131	A quality function deployment approach to task organization in peacekeeping force design
Robert E. Kohn	151	Thresholds and complementarities in an economic model of preserving and conserving biodiversity
Discussion **Marion Sabine Rauner**	173	A note on "A disaggregation model of a flexible nurse scheduling support system" by Irem Ozkarahan, Socio-Economic Planning Sciences, 1991, 25:9–26
About the Authors	179	

NUMBER 3

Michael Greenberg, Andrew Isserman, Michael Frisch, Donald Krueckeberg, Karen Lowrie, Henry Mayer, Darien Simon and **David Sorenson** — 183 Questioning conventional wisdom: the regional economic impacts of Major US nuclear weapons sites, 1970–1994

S. I. Cohen — 205 European structural patterns applied to transition economies: assessment for Poland and Hungary

Ferenc Forgó and **Ferenc Szidarovszky** — 221 On consistency of income and cost sharing

Murray J. Côté — 231 Patient flow and resource utilization in an outpatient clinic

Yigal Gerchak — 247 On smoothing performance in periodic merit reviews

About the Authors — 251

NUMBER 4

William W. Cooper and **Leigh McAlister** — 257 Can research be basic and applied? You bet. It better be for B-schools!

Norah Singpurwalla, Ernest Forman and **David Zalkind** — 277 Promoting shared health care decision making using the analytic hierarchy process

H. Roland Weistroffer, Blue E. Wooldridge and **Rahul Singh** — 301 A multi-criteria approach to local tax planning

About the Authors — 317